AMPEX – NAGRA

VPR-5

WORLD'S LIGHTEST TYPE C PORTABLE VTR



AMPEX

Editing In The Field Or Studio.

To begin with you're in C-format, which is a good place to start in post-production. To add to that, the VPR-5 has some nice amenities of its own. Its exclusive dual-cue editing allows studio-type control. Four edit-related functions characterize this VTR's professional ability: from let's see it reviews, and precise returns to the next edit point, to total control when replacing undesired material, and even mid-segment edits to new material.

Audio In The Best Tradition Of Nagra/Kudelski.

By jointly developing the Ampex Nagra VPR-5 recorder with Kudelski SA, Ampex capitalized on over 30 years of valuable experience in high quality audio acquisition. The name Nagra is known worldwide for small, rugged high quality audio recorders.

Advanced audio technology is built-in the VPR-5. You'll find features like a variety of interfaces available for microphone types and/or line inputs. And seven built-in switch-selectable filters to match scene acoustics, particularly low frequency reverberation cancellation.

You'll find a unique display using LCD for VU or PPM level. Even full individual record control lockouts for two audio channels and standard time code channel.





You'll even discover that the VPR-5 features an audio confidence playback selector independent of the video.

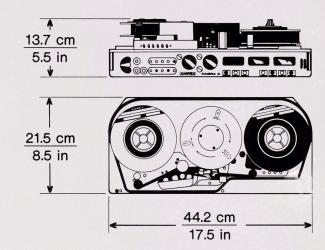
The Accessories. Logical Choices For A World Class VTR.

Naturally, this VTR has an interesting list of accessories. You can add a "Quick" charge power system that also serves as an AC power adapter. You'll be able to recharge up to six standard batteries in less than five hours.

You can add video/audio adapters, plug-in side mounted modules containing standard interface circuitry for most video cameras, as well as audio system input. Blank modules are available for your custom use.

You can also get rack mounting for mobile van use, even mountings for wall or table top use.

Tape products available include a special Ampex 5.5 inch reel with 20 minute capability in a convenient dual pack box with matching take-up reel.



6.8 KG.

To realize the goal of producing the world's first ultra-light C-format VTR, almost every aspect of VTR design underwent

revolutionary thinking. Power efficiency and weight reduction on the Ampex Nagra VPR-5 is accomplished by turning to low-power, high speed dual microprocessors and aerospace design and machining techniques based on lightweight but extremely strong aluminum alloy. Every gram of unneeded weight was eliminated.

And everything from a new C-format scanner to the use of the latest SO (small outline) electronic components allowed the VPR-5 engineers to reach the goal of the world's lightest VTR.

Rugged Performance Worldwide. The VPR-5 recorder was designed for high quality field acquisition under extreme environmental conditions... from -10° C to $+45^{\circ}$ C. It's now

possible to get high performance video acquisition as well as production/post-production utility, special effects, economy and quality in creating the final program... all in one-person operation.

More Features Than You'd Expect. The VPR-5 features full video and audio confidence playback, sophisticated audio processing, a high level of camera/VTR operator interface, and complete remote capabilities.

The optional microprocessor controlled built-in character generator means selected character signals can be seen in the viewfinder, and operator confidence is enhanced by the comprehensive yet easy-to-use operational and diagnostic functions.

Standard tape length is 20 minutes with 60 minute reel use also available. Naturally, the VPR-5 features SMPTE/EBU time code. And all world te evision standards will be available on this world class VTR.



INTRODUCING THE AMPEX NAGRA VPR-5

It Took Advanced European And American Technology To Make The World's Lightest, Most Portable VTR.



Ampex Nagra VPR-5 Specifications PRELIMINARY

VIDEO AND SYNC Bandwidth	NTSC 525/60 Flat to 4.2 MHz ± 0.5 dB, -3 dB at 5.0 MHz		PAL/SECAM 625/50 Flat to 5.0 MHz ± 0.5 dB, −3 dB at 6.0 MHz	
S/N (Rhode & Schwarz unweighted with bandpass filter Demodulator video output)	-46 dB peak-to-peak video to basis	rms noise on interchange	—43 dB peak-to-peak video to rms noise on interchan basis	
_F Linearity	2% blanking to white (max)			ng to white (max)
Differential Gain	4% blanking to white (max)		4% blanki	ng to white (max)
Differential Phase (40 IEEE units of subcarrier thru TBC)	4° at 3.58 MHz off-tape (max)			MHz off-tape (max)
Chrominance/Luminance Delay	20 n sec (max)		25 n sec ((max)
PT sin ² pulse & bar	1% K-factor (max)		1% K-fact	
Moire	-40 dB color bars 75% amplit	ude 3.58 MHz subcarrier	-36 dB c	olor bars 75% amplitude 4.43 MHz subcarrie
AUDIO (Channels 1, 2 & 3)* Frequency Response (400 Hz Ref) 100 nWb/m	±1 dB 500 Hz to 10 KHz ±2 dB 50 Hz to 15 KHz			
S/N with respect to 8 dB above reference level	−56 dB Audio 1 & 2 −50 dB Audio 3			
Distortion (measured at 1 KHz) @ 100 nWb/m reference level (+8 dBm) @ 251 nWb/m peak level (+16 dBm)	1% (max) 3% (max)			
Depth of Erasure on its own recording	-70 dB			
Now & Flutter (NAB unweighted)	0.15% rms			
Crosstalk (Audio 1 & 2) 1 kHz referenced to +8 dBm or 100 nWb/m	-50 dB (max)			
Audio 3 input line or time code generator, by PWA replace	ement.			
AUDIO CONTROLS Channel 1 & 2 controls:			100	
Mode AGC	Rotary switches to set: Monaural with manual level; Monaural with AGC; Stereo with AGC; Dual chan. with manual level; Dual chan. with AGC. AGC to be of peak compression type with operator control of limiting threshold.			
evel controls	Rotary, continuous control			
nput filter	Rotary switch selecting: Flat; Seven additional settings increasing low frequency attenuation.			
Record enable	Toggle switches provided to individually control enable/disable of recording on each channel.			
lecord enable	Meters PPM or VU selectable by VTR internal program/jumper. Will indicate AGC limiting action simultaneous with level readings.			
SIGNAL INPUTS Video (75 ohms) BNC Connector	0.5 to 2.0 Volts peak-to-peak			
Advanced Sync Reference	1 Volt peak-to-peak			
Audio channels 1 & 2 Mic (with optional interface): Line (with optional interface):	150 μ V (min) @ 200 ohms 40 dB above (max) +8 dBm nominal @ 25K ohms bridging +24 dBm (max) -20 dBm (min)			
SIGNAL OUTPUTS Video 75 ohms BNC	1 Volt peak-to-peak			
Audio Monitor Output Channels 1, 2, & 3	1 Volt peak-to-peak imbalanced, 600 ohms. Balanced or floating optional.			
Maximum Output	+16 dBm			
RF for ext. DOC use (75 ohm BNC)	0.3V to 1.0V range			
GENERAL Weight: including battery pack and 20 minute reel	6.8 kg (less than 15 lbs.)			
Record Time	20 minutes with special 5.5 inch reels, in portable configuration. Can use 9" reels for 1 hour capacity.			
Battery capacity	1 hour 525 625			
Γape Speed (Nominal)	9.6 in/s	9.44 in/s		
/ideo Writing Speed (Nominal)	1009 in/s	842 in/s		
Carrier Frequencies	7.9 MHz blanking level 10.0 MHz peak white	7.68 MHz blanking level 8.9 MHz peak white		
Audio Equalization	15 microseconds 3180 microseconds		15 micros	seconds
Scanner Run-up	Less than 2 seconds			
TEMPERATURE & HUMIDITY TEMPERATURE -10° to +45°C operating HUMIDITY 10%-90% RH (non-condensing)	POWER REQUIRENT For AC operation (optional adapter):	## JENTS 50/60 Hz, single phase 105/115 Volts AC at 1.0 A ft 210/230 Volts AC at 0.6 A	Nominal Nominal	PHYSICAL DIMENSIONS Height: 13.7 cm (5.5 inches) Width: 44.2 cm (17.5 inches) Depth: 21.5 cm (8.5 inches)

Ampex reserves the right to make product and specification changes at any time without notice.

AMPEX Ampex Corporation, Audio-Video Systems Division

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